

SIRUP MAKING.

AN IMPROVEMENT ON THE COMMON METHOD OF CLARIFICATION.

So much interest is manifested in the making of sirup from sugar cane on a small scale that the Alabama station presents a report (bulletin 162) of experiments in this direction, which should attract especial attention on account of the low price of the chief staple crop and the consequent tendency of the farmers to diversify their products to a greater extent than heretofore. As stated in a previous bulletin (No. 69), but little attention has been given, as a rule, to the clarification or definition of sirups in this state, and in many cases a considerable proportion of the canes and suspended impurities is boiled down with the sirup, darkening its color, affecting its taste and making its preservation more difficult. A satisfactory clarification of the juice not only brightens the product very materially, but also effects the removal of a large proportion of the albuminous matters, whose presence favors the growth and action of ferment.

It is also of the greatest importance that more attention be given to the density to which the sirup has been cooked; since in most cases the sirup color determines by the eye and in a very crude way the point at which the sirup should be drawn off.

In many cases the sirup is cooked too thick a consistency, and as a consequence crystallization and deposition of sugar take place, while, on the other hand, if the sirup is not boiled to the proper density, fermentation is likely to ensue, and the preservation of the sirup becomes a more difficult problem.

When the ordinary form of evaporation is at hand, the actual process of evaporation can be conducted in the usual manner, but the crude preliminary system of clarification now in general use can be much improved by resorting to the sulphuring process.

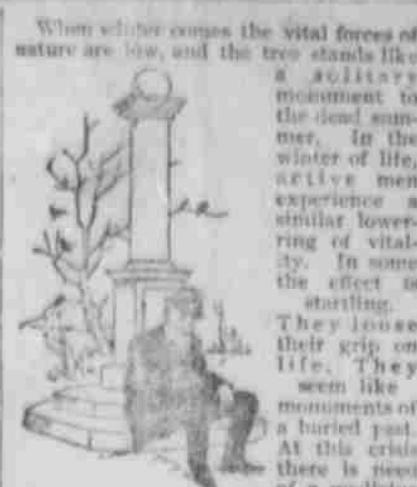
In this process the juice fresh from the mill is allowed to run slowly through a sulphuring box containing a number of inclined shelves, and, as the juice trickles slowly down from shelf to shelf, it meets with an increasing current of sulphur fumes which are produced by burning brimstone or roll sulphur in a roughly constructed brick furnace.

In this way the juice is at once rendered lighter in color, and when heated in the evaporator the separation of albuminous matters and other impurities is effected much more readily and rapidly. After the heating of the juice is completed the addition of a small amount of milk of lime is frequently found to facilitate the clarification and renders the separation of extract more easy.

When the above process of clarification is employed the resulting sirup is much clearer and brighter, and at the same time it can be preserved much more easily. It is desired to preserve the sirup for a considerable period of time, so the liquid, concentrated to the proper strength, is run into a bottle or glass jar of from half a millionth to one-half of a millionth of a milliliter capacity, which has been rinsed with hot water. The vessel is filled almost up to the mouth with sirup and is then securely closed up for future use.

By this process a sirup has been prepared at the laboratory for four years, and crystallization of sugar can also be prevented if care is taken to avoid cooking the sirup at too great a temperature.

PHASER & CO., Melons, etc. For a number of years my practice has been to plant cantaloupe, melon and similar plants on the mountain side in the valley. The results are better than with fruit culture on mounting in the hill. A plant cantaloupe from about



Whom whither comes the vital forces of nature are few, and the tree stands like a solitary monument to the dead summer. In the winter of life, active men experience a similar lowering of vitality. In some the effect is startling. They loose their grip on life. They seem like monuments of a buried past. At this crisis there is need of a medicine which will nourish and build up the body, and increase its vital power. Such a medicine is Dr. Pierce's Golden Medical Discovery. It brightens the blood, purifies it, carries off the clogging waste of the system, increases the nutrition of the body, and produces a sound, healthy condition with abundant vital power and physical energy.

—*Editor of Jour. His Co., Ky.* writes: "When I began using Dr. Pierce's Golden Medical Discovery I had nervous or general debility of three years duration. I had to leave business in the autumn. During the first year I lost weight, became pale, feverish, and I gained fifteen pounds weight, and also gained strength every day. It has been six months since I took the medicine and I still gain weight. This is the second and last year I have used this, and also still improve daily. If you will let me know if it proves to be of service to any sick person I will feel well repaid."

There is no alcohol or other ingredients in "Golden Medical Discovery," neither opium nor other narcotics drugs. The dealer who offers a substitute for the "Discovery" is seeking to profit himself, not to help you. Trust in having "Golden Medical Discovery."

Dr. Pierce's Common Press Medical Advice is sent free, on receipt of stamp to cover cost of mailing only. Send 21 one-cent stamps for letter in paper cover, or 31 stamps for cloth binding. Address Dr. R. V. Pierce, Buffalo, N. Y.

\$5 and up. 2000 Sewing Machines

Largest Variety of the very highest grade sewing machines to select from. We sell a first class machine guaranteed to be perfect, lightest running, easiest to learn, and most convenient for 20 years lower than any other factory in America, \$8 to \$22. That is the lowest price we can offer. Write for our Art Catalog and prices. We will prove to us, handle only the finest grade.

You have privileges of thorough examination, money back as you desire, assistance, why not buy a machine as we sell at wholesale only. You can save \$5 to \$20 by dealing with us. Remember that costs nothing.

Pianos and Organs

The best on earth at moderate prices. A few additional articles. Write for our Art Catalog.

BROWN & CO., Dept. 12, CHICAGO, ILL.

Above instruments are perfectly reliable.—Editor.

A Few Strangely Learned.

The man resided in the big apartment house in which he lived at 2 o'clock. A search of all his pockets failed to bring forth his bunch of keys. He rising the bell repeatedly for the porter, he could get no response. He was exceedingly tired, there was no light in the porter's office, there were many reasons why he was unwilling to go to sleep. The noise of a porter's shift bell was heard, which was the signal for a physician's night call. He pushed the button for 20 seconds or more. In the darkness the porter's name came to the door and opened it.

"What is your key for night calls?" asked the tucked-out individual. "Four dollars," was the astonished reply.

"All right, here you are. I was locked out and couldn't get in. Sorry to trouble you." And he began his weary march up and down in the thought of the extra he had escaped.—New York Tribune.

Put Your Finger on Your Pulse

You feel the blood rushing along.
But what kind of blood?
That is the question.
Is it pure blood or impure blood?

If the blood is impure then you are weak and languid; your appetite is poor and your digestion is weak; you cannot sleep well and the morning finds you unprepared for the work of the day. Your cheeks are pale and your complexion is sallow. You are tormented with pimples, boils, acne, &c. &c. &c. &c. Why not purify your blood?

"I know—I was afraid you were going to say that," said my wife, Dorothy. "You ought not to say such things, and yet their books seem to be logical logical, informed as they are multivoluminal."

For sure I had come for such things, and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.

For sure I had come for such things,

and yet it had given more than merely a reasonable hope and encouragement for those who are suffering from the disease.